

A1

a plurality of electrodes each electrically connected to a respective one of the plurality of individual wires and positioned at various points along the cable, at least one of the plurality of electrodes being positioned between the first end and the distal end.

A2

5. (Amended) A monitoring cable as recited in claim 1, further comprising a plurality of resistive elements each electrically positioned between a respective electrode and the respective one of the plurality of wires.

A3

9. (Amended) A monitoring cable as recited in claim 1, wherein the connector comprises an interface connector provided at one end of the cable and including a plurality of contact portions each connected to a respective one of the plurality of individual wires, the interface connector provided for connecting the monitoring cable to the monitoring equipment.

10. (Amended) A monitoring cable comprising:
a cable including a plurality of individual wires each extending substantially an entire length of the cable; and
a plurality of electrode connectors each electrically connected to a respective one of the plurality of wires and positioned at various points along the cable.

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14. (Amended) A monitoring cable as recited in claim 10, further comprising a plurality of resistive elements each electrically positioned between a respective electrode connector and the respective one of the plurality of wires.

19. (Amended) A monitoring cable comprising:

a connector for connection to a monitoring equipment;

a plurality of respective cables, each of the plurality of respective cables including a plurality of individual wires each extending substantially an entire length of the respective cable, each of the plurality of individual wires of each of the plurality of respective cables having an end terminating at the connector; and

a plurality of electrodes each electrically connected to a respective one of the plurality of individual wires and positioned at various points along each of the plurality of respective cables.

20. (Amended) A monitoring cable comprising:

A4 a connector for connection to a monitoring equipment;

a plurality of respective cables, each of the plurality of respective cables including a plurality of individual wires each extending substantially an entire length of the respective cable, each of the plurality of individual wires of each of the plurality of respective cables having an end terminating at the connector; and

a plurality of electrode connectors each electrically connected to a respective one of the plurality of individual wires and positioned at various points along each of the plurality of respective cables.

21. (Amended) A monitoring cable comprising:

a cable including a plurality of individual wires each extending substantially an entire length of the cable, the cable having substantially a same shape for substantially an entire length thereof; and

a plurality of electrodes each electrically connected to a respective one of the plurality of individual wires and positioned at various points along the cable.

25. (Amended) A monitoring cable as recited in claim 21, further comprising a plurality of
AS resistive elements each electrically positioned between a respective electrode and the respective
one of the plurality of wires.

39. (Amended) A monitoring cable comprising:

a connector for connection to a monitoring equipment;

a plurality of respective cables, each of the plurality of respective cables including
plurality of individual wires, each respective cable having a shape, each respective cable having
substantially a same shape for substantially an entire length thereof, each of the plurality of wires
of each of the plurality of respective cables having an end terminating at the connector; and

AL a plurality of electrodes each electrically connected to a respective one of the plurality of
individual wires and positioned at various points along each of the plurality of respective cables.

40. (Amended) A monitoring cable comprising:

a plurality of respective cables, each respective cable having a shape, each respective
cable having substantially a same shape for substantially an entire length thereof, each of the
plurality of wires of each of the plurality of respective cables having an end terminating at the
connector; and

a plurality of electrode connectors each electrically connected to a respective one of the
plurality of individual wires and positioned at various points along each of the plurality of
respective cables.

REMARKS

The application has been reviewed in light of the Office Action dated May 29, 2002.

Claims 1-29, 39, 40 and 43-45 are pending in this application with claims 1, 10, 19, 20-21, 39